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FREE-STALL BARN

....for 62 cows

(arrangement for dairy system)

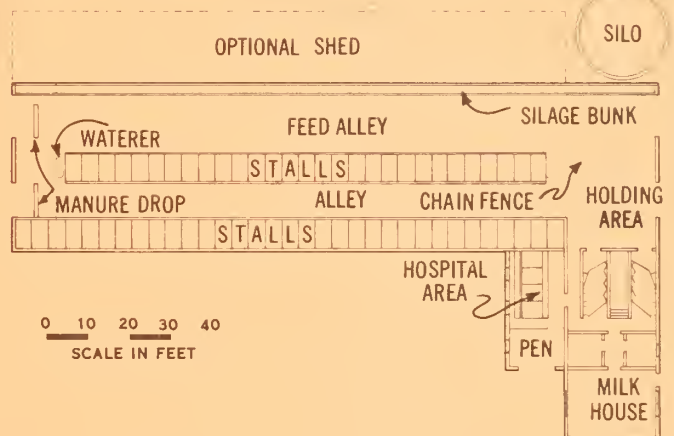


This plan primarily suggests the arrangement of a free-stall dairy system for a small herd. The cows are housed and fed within a closed, uninsulated barn to which is attached the milking plant and a hospital area.

The silage feed bunk along one wall may be filled from the silo by a mechanical conveyor or by a self-unloading wagon in the drive-through feed alley. The bunk provides about 2½ feet of feeding space per animal.

Ventilation, important in a closed barn, is provided by slot openings under the sidewall eaves and by a continuous vent along the ridge. In warm weather, hinged panels in the sidewalls may be opened to allow additional air movement.

General construction features for the barn are shown on the working drawing. Details such as fastenings are left to the discretion of the builder. The barn is of pole-type construction using squared wooden posts. Clear span, commercially fabricated trusses support the roof. These trusses, spaced not over 4 feet on centers, must be designed to safely carry the weight of the roof structure plus the wind and snow loads which may be expected in the particular area where the building is to be erected. Consult your county agricultural agent or



State extension agricultural engineer for advice on construction changes that may be required by conditions in your area.

Both the size of the milking plant and details of its construction will be governed by the equipment selected for it and by the applicable health regulations.

A large-scale plan may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Federal Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

ORDER PLAN NO. 6034, FREE-STALL BARN—FOR 62 COWS

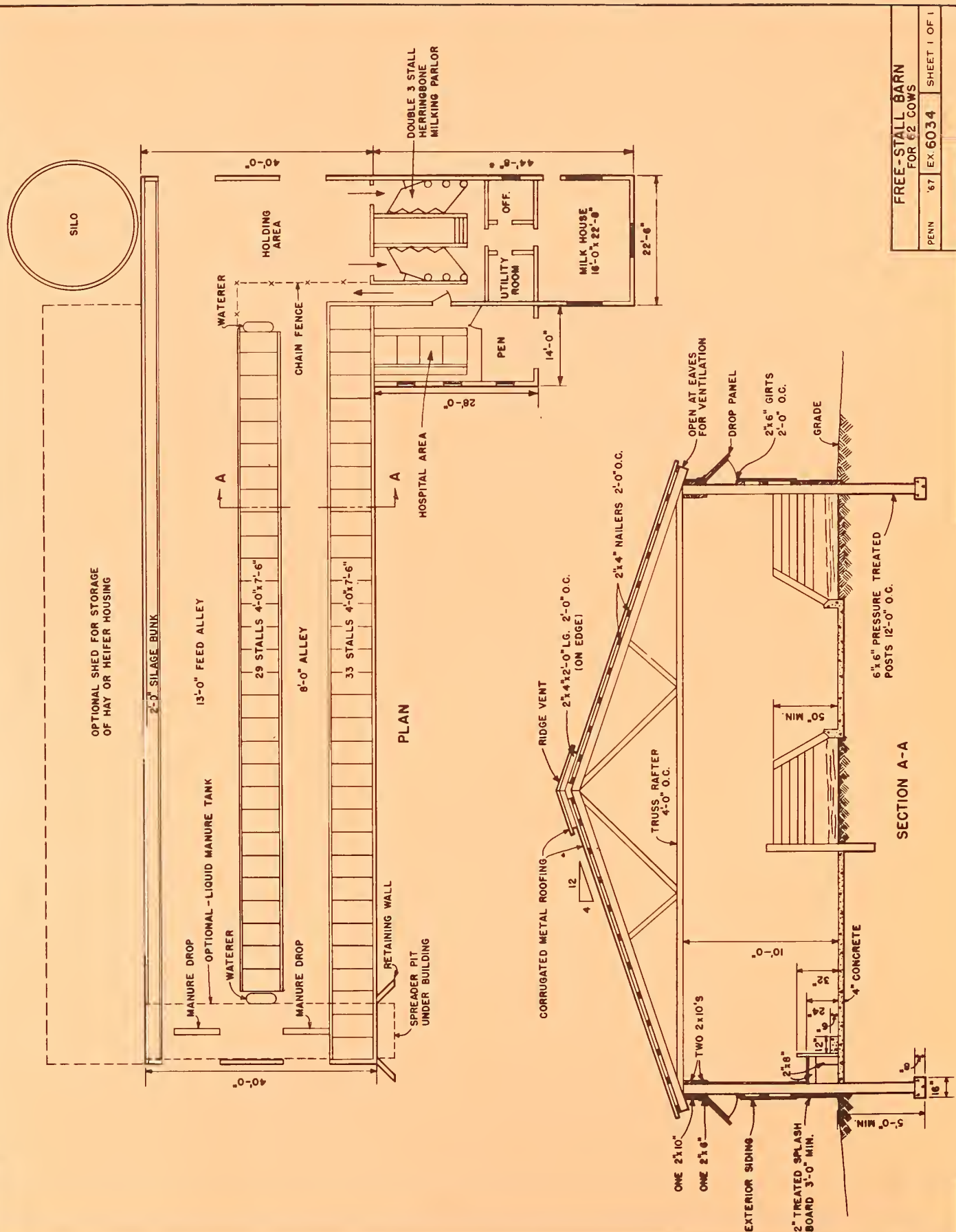
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